

correctness. His views respecting some of the animals referred to the class of Acalephs, which he would remove from it, exemplify this disposition of his; and the many unnecessary changes which he made in the nomenclature of the lower animals are another evidence of that unhappy propensity. There are few examples of a more appropriate name for a new class in the animal kingdom, than that of *Acalephæ*, selected by Cuvier to designate, in general, all the animals allied to those known by the ancients under that name. It was at once adopted by all naturalists. The most important work ever published upon this class, as a whole, bears that name upon its very title; and yet DeBlainville does not hesitate to substitute for it a new, ill-sounding name, *Arachnodermaria*, the meaning of which, if it suggests any thing, recalls affinities with another type of animals, with which the Acalephs have no affinity.

CLASSIFICATION OF OKEN, 1835.

The views held by Oken upon classification and the affinities of animals have already been presented in my first volume (p. 212). It remains only to give a special account of his arrangement of the animals belonging to the type of Radiata. Oken does not unite the Echinoderms with the other radiated animals; but, founding upon the manner in which the parts of their solid envelope are movably united, and also upon the worm-like form of the Holothuriæ, unites them with the Articulates, in one and the same class with the Worms, as a distinct order of that class. The Acalephs are united, with the Polyps and Infusoria, into another primary division, the *Intestinal animals*, divided into three classes: the Infusoria, as Stomach-animals; the Polyps, as Intestine-animals; and the Acalephs, as Lacteal-animals. The class of Acalephs is itself subdivided into three orders:—

1st Order. The *Infusorial Acalephs*, or Siphonophoræ.

1st Tribe. Diphyes, Calpe, Abyla, Cymba, Aglaïma, Eudoxia.

2d Tribe. Rhizophysa, Stephanomia, — Physophora, — Physalia.

3d Tribe. Porpita, Lithactinia, Rataria, Velella.

2d Order. The *Polypoid Acalephs*, or Ctenophoræ.

1st Tribe. Eucharis, Cydippe, — Idya, — Medea, Pandora.

2d Tribe. Mnemia, Callianira, Cestum.

3d Tribe. Axiotima, Calymma, Aleinœ, Ocyrhœ.

3d Order. The *Acalephs proper*, or Discophoræ.

1st Tribe. Eudora, Berenice, — Geryonia, — Rhizostoma, Cassiopea, Cephea.

2d Tribe. Phorecynia, Melicertum, Thaumantias, Oceania, Callirhoe — *Æquorea*, — *Ægina*,
Cunina, Polyxenia.

3d Tribe. Ephyra, — Aurelia, — Pelagia, Chrysaora, Cyanea.

This classification may be considered as a remodelling of Eschscholtz's, adapted to the views of the author respecting the manner in which the structure of the higher animals is represented by independent beings,—recalling, as it were, the different systems of their organs.